

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/707,599	TERASAWA	
	<b>Examiner</b>	<b>Art Unit</b>	
	Sean P. Shechtman	2125	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/19/06.
2. ☒ The allowed claim(s) is/are 5, 11 and 15-19.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____</li> <li>7. <input type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
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### **DETAILED ACTION**

1. Claims 5, 11, and 15-19 are presented for examination. Claims 5, 11, and 15, and 17-19 have been amended. Claims 1-4, 6-10, 12-14, and 20-21 have been cancelled.

#### ***Claim Rejections - 35 USC § 112***

2. Rejections are withdrawn in light of the amendment filed April 19<sup>th</sup> 2006.

#### ***Claim Rejections - 35 USC § 102***

3. Rejections are withdrawn in light of the amendment filed April 19<sup>th</sup> 2006.

#### ***Claim Rejections - 35 USC § 103***

4. Rejections are withdrawn in light of the amendment filed April 19<sup>th</sup> 2006.

#### ***Allowable Subject Matter***

5. Claims 5, 11, and 15-19 are allowed.

The following is an examiner's statement of reasons for allowance:

While Edelman teaches a method of analyzing pattern information pieces each being a set of information units, each of the information units having a scalar representing a specific characteristic as an attribute, the method comprising the steps of: calculating an activity level of each of the pattern information pieces according to the scalars of the information units of the pattern information pieces and scalars of a sets of information units associated with an input pattern information pieces; repressing a predetermined number of times the calculated activity level of each pattern information piece according to repression rules that are determined in consideration of the other pattern information pieces; and generating a new set of information

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units each having a new scalar and a scalar representing the set of information units, according to the information units and repressed activity levels of the pattern information pieces.

And, Ravi Chandran discloses steps for calculating an activity level.

Neither Edelman nor Ravi Chandran, taken either alone or in obvious combination disclose a method of analyzing input information having all the claimed features of applicant's instant invention, specifically including:

Referring to claim 5, a repressing step that changes each activity level according to a repression coefficient calculated with the formula in claim 5.

Referring to claim 11, a mutual repressing means that changes each activity level according to a repression coefficient calculated with the formula in claim 11.

Referring to claim 15, calculating one of a plurality of similarity levels with the formula in claim 15.

Referring to claim 17, calculating a similarity level of a cell in a similarity range containing a focal range of one cell of a partial or whole set of cells of at least one of a plurality of stored patterns with respect to the converted pattern according to cell values of the stored patterns and the converted patterns.

Also, there is no motivation to combine Edelman and Ravi Chandran to meet these limitations. It is for these reasons that applicant's invention defines over the prior art of record.

Claims 16 and 18-19 depend from claims 15 and 17 respectively and are therefore allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

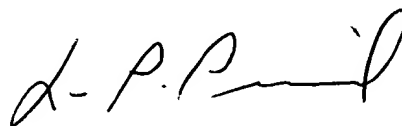
fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean P. Shechtman whose telephone number is (571) 272-3754. The examiner can normally be reached on 9:30am-6:00pm, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo P. Picard can be reached on (571) 272-3749. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



SPS

Sean P. Shechtman

May 5, 2006

**LEO PICARD  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100**